

Supporting Information

Gazzola et al. 10.1073/pnas.1113211109

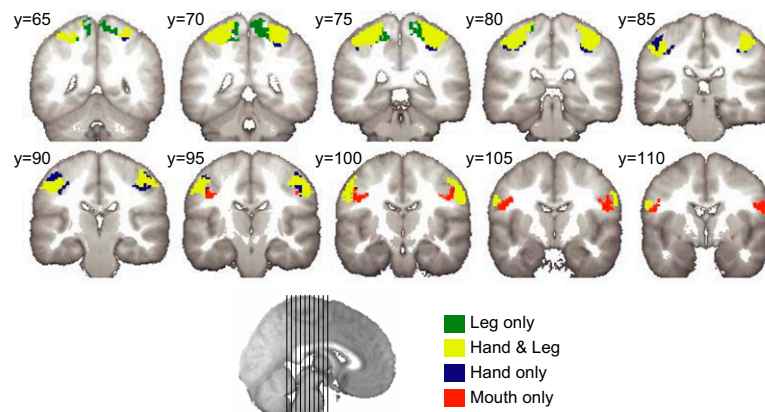


Fig. S1. Location of the ROIs responding to touch leg-only, leg and hand, hand-only, or mouth-only stimulation.

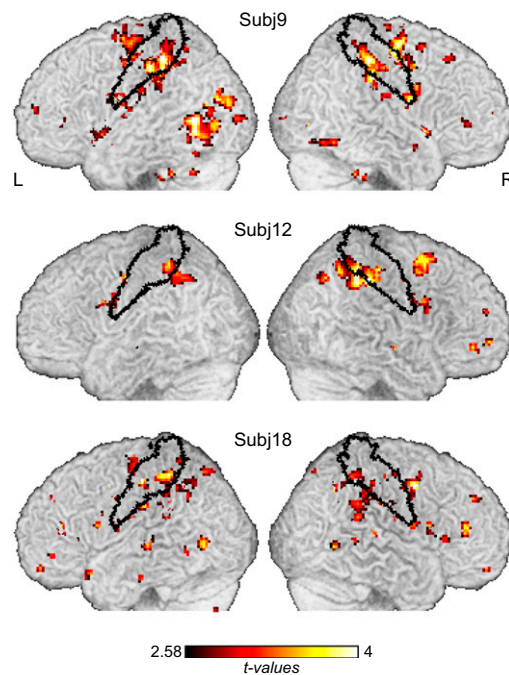


Fig. S2. The effect of visual sex in three randomly selected single participants. The contrast of visually female caress minus visually male caress ($P < 0.005$, uncorrected) is shown in voxels that also respond significantly during the localizer activation ($P < 0.005$, uncorrected) on renders of their normalized individual brain anatomy. The black line outlines the borders of SI according to the anatomy toolbox (BA3a, BA3b, BA1, and BA2). To improve spatial resolution, results were smoothed by using a kernel of $6 \times 6 \times 6$ mm instead of the $10 \times 10 \times 10$ -mm kernel that was more appropriate for the group analysis.

Table S1. Activation table for GLM, correlation with rating, pattern classification, and psychophysiology interaction analyses

k	t	x	y	z	hem	Anatomical description	Cytoarchitectonic description
GLM: Visually female no-caress minus visually male no-caress (epoch 3)							
2069	5.3	-44	-72	2	L	Middle occipital gyrus	hOC5 (V5)
	5.03	-44	-82	10	L	Middle occipital gyrus	—
	4.74	-42	-52	-12	L	Fusiform gyrus	—
	3.74	-28	-88	32	L	Middle occipital gyrus	—
	3.64	-22	-88	36	L	Superior occipital gyrus	—
1061	4.95	52	-64	-2	R	Middle temporal gyrus	—
	4.12	48	-42	-16	R	Inferior temporal gyrus	—
253	3.82	-18	-72	-16	L	Cerebellum (VI)	—
	3.43	-26	-68	-8	L	Fusiform gyrus	hOC4v (V4)
162	3.8	-28	-46	56	L	Superior parietal lobule	Area 1
	3.7	-32	-40	48	L	Inferior parietal lobule	hIP3
134	3.68	28	-84	30	R	Superior occipital gyrus	—
	3.28	30	-78	22	R	Middle occipital gyrus	—
84	3.45	32	-48	54	R	Inferior parietal lobule	SPL (7PC)
	3.41	32	-36	54	R	Postcentral gyrus	Area 3b
42	3.47	30	-64	-6	R	Fusiform gyrus	—
19	3.43	-46	-30	42	L	Inferior parietal lobule	Area 2
GLM: Visually female caress minus visually male caress (epoch 3)							
1864	4.97	-26	-20	64	L	Precentral gyrus	Area 6
	4.84	-20	-18	70	L	Precentral gyrus	Area 6
	4.71	-30	-42	54	L	Postcentral gyrus	Area 2
	4.43	-36	-34	46	L	Postcentral gyrus	Area 2
	3.75	-48	-30	50	L	Postcentral gyrus	Area 2
	3.71	-48	-24	60	L	Postcentral gyrus	Area 1
	3.64	-44	-22	62	L	Postcentral gyrus	Area 6
	3.42	-56	-26	40	L	Supramarginal gyrus	IPC (Pft)
1103	4.54	28	-44	54	R	Postcentral gyrus	Area 2
	4.21	44	-32	50	R	Postcentral gyrus	Area 2
	3.93	50	-26	36	R	Supramarginal gyrus	IPC (Pft)
	3.82	54	-24	36	R	Supramarginal gyrus	IPC (Pft)
	3.4	34	-42	64	R	Postcentral gyrus	Area 1
	3.29	62	-22	46	R	Supramarginal gyrus	Area 2
	3.08	20	-44	62	R	Postcentral gyrus	Area 2
1019	5.56	-32	-42	-22	L	Fusiform gyrus	—
	3.86	-22	-62	-16	L	Cerebellum (vi)	—
	3.14	-26	-70	-4	L	Lingual gyrus	hOC4v (V4)
721	3.69	-42	-74	-2	L	Middle occipital gyrus	—
	3.64	-44	-62	0	L	Middle temporal gyrus	—
	3.62	-38	-86	10	L	Middle occipital gyrus	—
	3.32	-22	-96	8	L	Middle occipital gyrus	Area 18
	3.27	-20	-94	6	L	Middle occipital gyrus	—
709	5.08	6	20	-8	R	Olfactory cortex	—
	4.51	-2	16	-6	L	Olfactory cortex	—
	4.32	-2	26	-20	L	Rectal gyrus	—
	4.1	6	24	-22	R	Rectal gyrus	—
	4.03	10	46	-14	R	Mid orbital gyrus	—
388	4.36	-6	-12	52	L	SMA	Area 6
350	5.19	22	-14	74	R	Superior frontal gyrus	Area 6
214	4.08	-16	-60	-50	L	Cerebellum (VIII)	—
99	3.56	52	-56	-10	R	Inferior temporal gyrus	—
81	3.38	-30	-12	4	L	Putamen	—
80	4.49	64	8	24	R	Precentral gyrus	—
46	3.45	-14	-30	46	L	Middle cingulate cortex	SPL (5Ci)
23	3.4	-26	-46	-46	L	Cerebellum (VIII)	—
16	3.38	16	-44	62	R	Superior parietal lobule	SPL (5L)
13	3.18	-30	-78	-16	L	Fusiform gyrus	hOC4v (V4)
GLM: Visually female minus visually male (epoch 1)							
452	6.37	34	-90	8	R	Middle occipital gyrus	—
133	5.64	-34	-92	-2	L	Middle occipital gyrus	—
Searchlight: Visually female vs. visually male (epoch 1)							
3050	8.99	3	-75	-9	R	Cerebellar vermis 6	—

Table S1. Cont.

k	t	x	y	z	hem	Anatomical description	Cytoarchitectonic description
	8.73	39	-87	15	R	Middle occipital gyrus	—
	8.2	27	-87	12	R	Superior occipital gyrus	—
	7.35	9	-87	0	R	Calcarine gyrus	Area 17
	6.69	24	-84	-9	R	Lingual gyrus	hOC3v (V3v)
	6.27	-12	-84	-12	L	Lingual gyrus	hOC3v (V3v)
	6.23	-27	-90	-3	L	Middle occipital gyrus	—
	6.23	-15	-81	-9	L	Lingual gyrus	hOC3v (V3v)
	6.2	-6	-75	0	L	Lingual gyrus	Area 18
	6.09	-24	-90	3	L	Middle occipital gyrus	—
61	5.15	66	-24	27	R	Supramarginal gyrus	IPC (PF)
	4.4	69	-30	15	R	Superior temporal gyrus	IPC (PF)
43	4.85	45	42	0	R	Inferior frontal gyrus p. Triangularis	—
	3.32	45	54	6	R	Middle frontal gyrus	—
41	3.94	-45	36	18	L	Inferior frontal gyrus p. Triangularis	Area 45
	3.69	-51	45	3	L	Inferior frontal gyrus p. Triangularis	—
32	4.42	30	24	-24	R	Inferior frontal gyrus p. Orbitalis	—
	4.14	33	27	-21	R	Inferior frontal gyrus p. Orbitalis	—
	3.69	27	27	-15	R	Inferior frontal gyrus p. Orbitalis	—
28	3.95	-18	36	-15	L	Middle orbital gyrus	—
	3.62	-30	33	-18	L	Inferior frontal gyrus p. Orbitalis	—
27	4.29	18	-51	12	R	Calcarine gyrus	—
19	4.18	-66	-21	33	L	Supramarginal gyrus	IPC (PFt)
	3.55	-57	-21	36	L	Supramarginal gyrus	IPC (PFt)
	3.48	-63	-27	27	L	Supramarginal gyrus	IPC (PF)
15	3.62	-48	6	45	L	Precentral gyrus	—
	3.45	-51	6	39	L	Precentral gyrus	—
10	3.63	-45	-63	27	L	Angular gyrus	IPC (PGp)
GLM: Visually female no-caress minus visually male no-caress (epoch 2)							
592	6.39	20	-88	-6	R	Lingual gyrus	Area 18
	5.48	22	-94	0	R	Calcarine gyrus	Area 17
	5.13	28	-92	-2	R	Inferior occipital gyrus	Area 18
126	4.63	-24	-90	2	L	Middle occipital gyrus	—
	4.36	-28	-90	-6	L	Inferior occipital gyrus	hOC3v (V3v)
	4.28	-20	-88	-10	L	Fusiform gyrus	hOC3v (V3v)
Searchlight: Visually female no-caress vs. visually male no-caress (epoch 2)							
2107	11.39	9	-84	6	R	Calcarine	Area 17
	10.59	12	-84	-3	R	Lingual gyrus	Area 18
	10.4	-6	-93	0	L	Calcarine gyrus	Area 17
	10.05	-36	-75	-21	L	Cerebellum (crus 1)	—
	9.52	9	-93	24	R	Cuneus	Area 18
	8.34	18	-69	-9	R	Lingual gyrus	hOC3v (V3v)
	7.66	24	-69	-6	R	Fusiform gyrus	hOC4v (V4)
	7.53	12	-99	15	R	Cuneus	Area 18
	6.87	-6	-102	-12	L	Calcarine gyrus	Area 17
60	5.25	33	-36	48	R	Postcentral gyrus	Area 2
	3.74	54	-36	51	R	Inferior parietal lobule	IPC (PF)
	4.24	45	-48	-42	R	Cerebellum	—
35	3.95	-42	-42	60	L	Postcentral gyrus	Area 2
19	4.36	-33	-33	69	L	Postcentral gyrus	Area 1
17	4.89	-51	-24	-9	L	Middle temporal gyrus	—
14	3.94	-48	-63	-36	L	Cerebellum (crus 1)	—
13	3.87	0	27	24	R	Anterior cingulate cortex	—
	3.67	-9	24	27	L	Anterior cingulate cortex	—
13	4.44	42	-54	-15	R	Fusiform gyrus	—
12	3.99	-45	3	-12	L	Superior temporal	—
Psychophysiological Interaction							
632	3.33	-46	-78	0	L	Middle occipital gyrus	hOC5 (V5)
	3.24	-46	-62	4	L	Middle occipital gyrus	hOC5 (V5)
	2.7	-40	-86	6	L	Middle occipital gyrus	—
	2.17	-22	-94	12	L	Middle occipital gyrus	—
	2.06	-26	-94	22	L	Superior occipital gyrus	—
177	2.99	-20	-70	-12	L	Lingual gyrus	—

